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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,736	10/31/2003	Jerry Z. Shan	200208138-1	3123	
22879	22879 7590 05/05/2005			EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			KUNDU, SUJOY K		
			ART UNIT	PAPER NUMBER	
			2863		
				DATE MAILED: 05/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assistant Occurrence	10/698,736	SHAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sujoy K. Kundu	2863			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply sis specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on)☐ Responsive to communication(s) filed on				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>1-30</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-30</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original of the correction is objected to by the Examiner sheet (s).	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 9, 10, 12, 15-18, 21-23, 25-27, 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Morita (5,453,749).

With regards to Claim 1, 12, 15, 17, 22, 25, and 27, Morita (5,453,749) teaches a processor-based method comprising:

receiving a data stream (Column 3, Line 27) comprising a plurality of temporally ordered data points (Summary of Invention, Column 3, Lines 27-30);

generating a plurality of sequences (Fig. 3) from a first portion of the data stream (Fig.3, Column 5, Lines 19-29, 43-54); and

training a detector (Column 5, Lines 19-21) by determining a value for a sensitivity parameter (Fig. 3, Step SE) using the plurality of sequences (Fig. 3, Column 5, Lines 19-21, 43-54).

With regards to Claims 2 and 16, Morita teaches a method comprising running the detector on a second portion of the data stream (Column 5, Lines 43-54).

Regarding Claim 4 and 18, Morita teaches wherein training the detector by determining the value for the sensitivity parameter based on a target level for an estimated performance characteristic of the detector (Fig. 3, Lines 19-33).

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Regarding Claim 9 and 30, Morita teaches a method wherein generating a plurality of sequences comprises:

selecting a change based on a distribution of changes (Fig. 3, Column 6, Lines 48-59); and

generating a changed sequence based on the selected change (Fig. 3, Step SC, Column 6, Lines 59-67).

Regarding Claims 10 and 11 Morita teaches a method wherein determining the value for the sensitivity parameter (Fig. 3, Step SE) comprises determining a plurality of values for the sensitivity parameter using the plurality of sequences (Fig. 3, Column 5, Lines 19-21, 43-54).

Regarding Claims 14, 21 and 23 Morita teaches a method comprising raising an alarm (Column 23, Lines 59-65) when respective detector signals detection when parameterized by the respective sensitivity parameter (Fig. 3, Step SE) and run on a respective second portion of a sufficient set of data streams (Column 5, Lines 43-54).

Regarding Claim 20, Morita teaches a method comprising an alarm (Column 23, Lines 59-65) only if an interesting event is detected in the data stream a predetermined number of times within a predetermined amount of time (Column 5, Lines 30-43).

Regarding Claim 26, Morita teaches a computer readable medium, storing computer instructions for generating a score corresponding to a second portion of the data stream (Column 5, Lines 19-29); and signaling detection of an interesting event in the data stream if the score (RAM 34, Column 5, Line 27) crosses the sensitivity parameter (Column 5, Lines 30-43).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 5, 13, 19, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morita as in view of Cox et al. (5,734,592).

Morita, teaches all the limitations as discussed above, however Morita does not teach a method wherein running the detector comprises: generating a score corresponding to the second portion of the data stream; comparing the score to the determined value for the sensitivity parameter; and signaling detection in claim 3 and 5.

Regarding claims 3, 5, 19 Cox et al. discloses a method wherein running the detector comprises: generating a score (Fig. FA, 20) corresponding to the second portion of the data stream (Fig. 4A, 20, Column 2, Lines 41-43); comparing the score to the determined value for the sensitivity parameter (Fig. 4A, 20, Column 2, Lines 43-49); and signaling detection (Fig. 4A).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to create a method wherein running the detector comprises: generating a score corresponding to the second portion of the data stream; comparing the score to the determined value for the sensitivity parameter; and signaling detection

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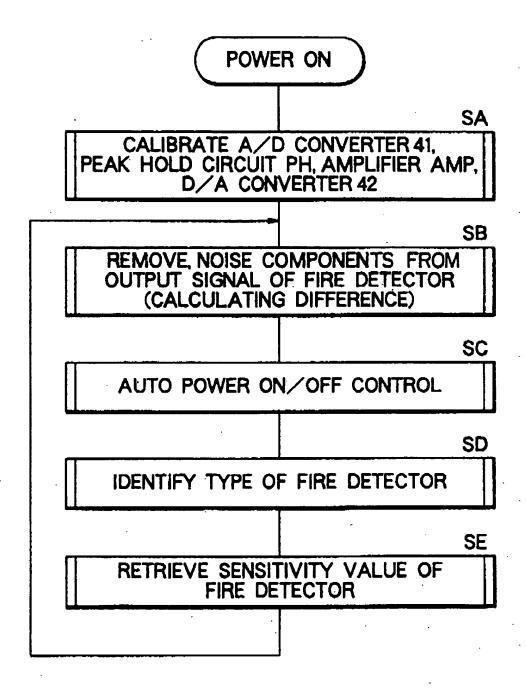
as taught by Cox into Morita for the purpose of minimizing cost and providing increase in operational time (Morita, Background of the Invention, Column 2, Lines 32-47).

Regarding claims 13 and 24, Morita teaches all the limitations discussed above, however Morita does not teach a method for determining the value for the sensitivity parameter comprises determining the value for the sensitivity parameter at lease partially on cost parameters.

Cox teaches a method for determining the value for the sensitivity parameter comprises determining the value for the sensitivity parameter at least partially on cost parameters (Claims, Column 11, Claim 2).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include teaches a method for determining the value for the sensitivity parameter comprises determining the value for the sensitivity parameter at lease partially on cost parameters as taught by Cox into Frey for the purpose of providing increase in operational time (Morita, Background of the Invention, Column 2, Lines 32-47).

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Regarding claims 6-8 and 28-29, are rejected under 35 U.S.C. 103(a) as being unpatentable over Morita and Cox as applied to claim 3 above and further in view of Ikeguchi et al. (US 2005/0075832 A1)

Morita as modified by Cox teach all the limitations above. However, Morita as modified does not teach inferring a statistical distribution of a known type to characterize the first portion of the data stream; and generating the plurality of sequences from the statistical distribution (claims 6 and 8). In addition, Morita as modified does not teach a discrete distribution containing data points from the first portion of the data stream, and wherein generating the plurality of sequences from the statistical distribution comprises selecting data points from the discrete distribution (claim 7 and 29). Furthermore, Morita as modified does not teach inferring a known type of distribution comprises determining a set of parameters corresponding to the known type of statistical distribution (claim 8).

With respect to claims 6 and 28, lkeguchi discloses a method for inferring a statistical distribution of a known type to characterize the first portion of the data stream; and generating the plurality of sequences from the statistical distribution (Background of the Invention, Paragraph 13). Furthermore, lkeguchi discloses a discrete distribution containing data points from the first portion of the data stream, and wherein generating the plurality of sequences from the statistical distribution (Background of the Invention, Paragraph 13) comprises selecting data points from the discrete distribution (Fig. 7A, Page 5, Paragraph 65). Nevertheless, lkeguchi discloses a method for inferring a known type of distribution comprises determining a set of parameters corresponding to the known type of statistical distribution (Page 5, Paragraph 69).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include claims 6-8 and 28-29 as taught by Ikeguchi into Cox and Morita for the purpose for facilitating an increase in processing speed.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujoy K. Kundu whose telephone number is 571-272-8586. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SKK 04/28/2005

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